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## 102-F5 18165

Math for Liberal Arts Dr (Matthew Sunderland)

at Locat at first

1. Synchronous lecture Monday 8:00–9:55 Wednesday 8:00–8:50 https://zoom.us/meeting/register/tJUocu6trTsuHtA5anoJr5LEor8D1iMFQZZr

- 2. Online problem sets due Sundays https://www.math.csi.cuny.edu/webwork2/Math102\_18165\_Sunderland\_F20/ Username and password both initially set to your CUNYfirst login (eg, first.last00)
- 3. Written assignments due some Sundays on https://www.gradescope.com course code 9Z28GZ
- 4. Reading assignments due each night before lecture Mathematical Excursions 4e by Aufmann, Lockwood, Nation, Clegg (Houghton Mifflin)
- Office hours TBA college bookstor, or elsewhile https://zoom.us/my/mattsunderland 5. Office hours TBA
- 6. Announcements, Lecture Recordings, and Grades posted on https://bbhosted.cuny.edu
- 7. Platform for administering exams TBA, possibly Blackboard, Gradescope, WeBWorK, Respondus, or Proctortrack

## Day 1 Homework

- 1. Download Zoom and create free account
- 7. Do Online Problem Set 1 by Sunday 8/30
- 3. Submit Written Assignment 1 by Sunday 8/30—see last two pages of syllabu
- 4. Do first reading assignment (Section 9.1) by Sunday 8/30
- 5. Do office hour survey https://forms.gle/RRf74atLQkR3kg5DA

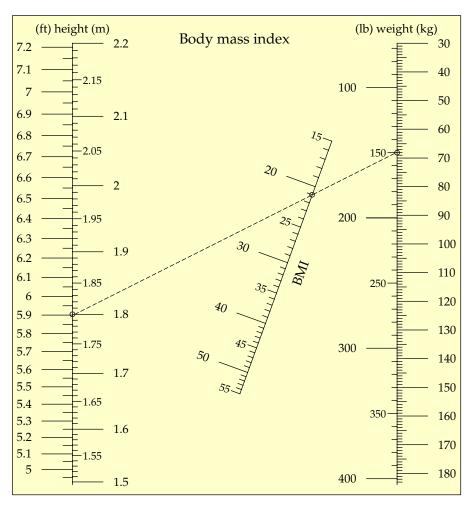
 $\textbf{Course Grade} = \text{Average of} \left\{ \begin{array}{l} \text{Coursework} \\ \text{Exam 1} \\ \text{Exam 2} \\ \text{Final} \end{array} \right. \left\{ \begin{array}{l} \textbf{1.} \text{Lecture participation} \\ \textbf{2.} \text{ Online problem sets} \\ \textbf{3.} \text{ Written assignments} \\ \textbf{4.} \end{array} \right.$ 

Lecture Recording Statement Students who participate in this class with their camera on or use a profile image are agreeing to have their video or image recorded solely for the purpose of creating a record for students enrolled in the class to refer to, including those enrolled students who are unable to attend live. If you are unwilling to consent to have your profile or video image recorded, be sure to keep your camera off and do not use a profile image. Likewise, students who un-mute during class and participate orally are agreeing to have their voices recorded. If you are not willing to consent to have your voice recorded during class, you will need to keep your mute button activated and communicate exclusively using the "chat" feature, which allows students to type questions and comments live.

**Deadlines** Add 9/1 Drop 9/15 Withdraw 11/6

by using the nomograph compare with the value you obtained by using a

c. Explain the advantages and disadvantages of using a nomograph to calculate BMI.



## **EXERCISE SET**

- What is the difference between an expression and an equation? Provide an example of each.
- 2. What is the solution of the equation x = 8? Use your answer to explain why the goal in solving an equation is to get the variable alone on one side of the equation.
- Explain how to check the solution of an equation.
- In Exercises 4 to 41, solve the equation.

**4.** 
$$x + 7 = -5$$

**6.** 
$$-9 = z - 8$$

**7.** 
$$b - 11 = 1$$

**8.** 
$$-3x = 150$$

**5** 
$$9 + b = 21$$

**24.** 
$$2(x+1) + 5x = 23$$

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**26.** 
$$7a - (3a - 4) = 12$$

**10.** 
$$-9a = -108$$

**12.** 
$$\frac{5}{2}x = -10$$

**14.** 
$$\frac{2x}{5} = -8$$

**16.** 
$$4y - 10 = 6 + 2y$$

**18.** 
$$10z + 6 = 4 + 5z$$

**20.** 
$$6a - 1 = 2 + 2a$$

**22.** 
$$2 - 6y = 5 - 7y$$

**4.** 
$$2(x+1) + 5x = 23$$

**26.** 
$$7a - (3a - 4) = 1$$

**11.** 
$$-\frac{3}{4}x = 15$$

**13.** 
$$-\frac{x}{4} = -2$$

**15.** 
$$4 - 2b = 2 - 4b$$

17. 
$$5x - 3 = 9x - 7$$

**19.** 
$$3m + 5 = 2 - 6m$$

**21.** 
$$5x + 7 = 8x + 5$$

**23.** 
$$4b + 15 = 3 - 2b$$

**25.** 
$$9n - 15 = 3(2n - 1)$$

**27.** 
$$5(3-2y)=3-4y$$

5. 
$$9+b=21$$
 $b=12$  subtact 9

9. 
$$-48 = 62$$
  
 $-8 = 2$  divide by 6

17. 
$$5\pi - 3 = 9\pi - 7$$
 $5\pi - 12 = 9\pi - 16$ 

Subtreet 9

10 se3 gain 7 gain 4

 $5\pi + 4 = 9\pi$  add 7

 $7 - 3 = 4$ 
 $9 - 3 + 7 = 4$ 

Subtreet  $5\pi$ 
 $9 - 3 + 7 = 4$ 
 $7 - 3 = 4$ 

divide 4

3m+6m

We have 1 = xSits like QQ

(it's like QQ.)

19. 
$$3m + 5 = 2 - 6m$$

Convining like terms and coefficients

3 feet + b feet = 9 feet

3 oranges = 9 oranges

$$9m + 5 = 2$$
 add 6m  
 $9m = -3$  subtreut 5  
 $m = -3/9$  divide 9  
 $= [-1/3]$